

PDR RID Report

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Priority 2

Section

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Figure Table

Category Name System-level

Actionee HAIS

Sub Category

Subject Off-Line Archive Capability vs Reprocessing

Description of Problem or Suggestion:

Current archive requirements only support retaining 6 months of previously processed data for reprocessed data sets. Current design does not support off-line archive capability/handling. System capacity (both CPU and on-line storage) are very constrained. Data dependencies are very complex (e.g., current MODIS Version may be Version 10, current CERES Version may be Version 8. If someone requests reprocessing of CERES Version 4 which may be dependent on MODIS Version 3 which may be dependent on ...) and could lead to spiraling reprocessing needs. In an evolutionary system, it is probable that older, non-maintained versions of science processing software will not be operable on "evolved" systems.

Originator's Recommendation

Perform trade of retaining "older" reprocessed data sets as off-line archive data sets (e.g., media costs, O&M, etc.) vs cost/complexity/capacity to support reprocessing of older version data sets.

GSFC Response by:

GSFC Response Date

HAIS Response by: Eisenstein

HAIS Schedule

HAIS R. E. S. Fox

HAIS Response Date 7/17/95

ECS has current Level 3 requirements (DADS0410, DADS0412) to permanently store the latest version of a data product and to retain older versions for a period of six months before deleting them. Old versions are retained for a longer period on an exception basis only. The typical reprocessing strategies to be used by the instrument teams have yet to be defined, however, it could well be the case that substantial recreation of old product versions could be required by some strategies.

ECS believes that the cost/benefits of retaining old versions offline to support reprocessing is a candidate topic for a special study. ECS recommends that the study not be initiated until the AHWGP better defines reprocessing strategies which should occur later this year.

Also, it should be pointed out that there are other Level 3 functional requirements (DADS1450, DADS1790, DADS1791) and performance requirements (DADS3125, DADS3126) that mandate a solution where all data is archived on near-line storage. These requirements would need to be relaxed should a decision be made to archive some data offline.

Status Closed

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Sponsor Herring

Attachment if any
